

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number  
**WO 2005/004330 A1**

(51) International Patent Classification<sup>7</sup>: **H03K 7/08**

(21) International Application Number:  
PCT/DK2003/000475

(22) International Filing Date: 7 July 2003 (07.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **TC ELECTRONIC A/S** [DK/DK]; Sindalsvej 34, DK-8240 Risskov (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PEDERSEN, Lars, Arknæs** [DK/DK]; Bernstorffsvej 13, DK-8260 Viby J (DK). **PEDERSEN, Kim, Rishøj** [DK/DK]; Skæring Sandager 54, DK-8250 Egå (DK).

(74) Agent: **PATENTGRUPPEN APS**; Arosgaarden, Aaboulevarde 31, DK-8000 Aarhus C (DK).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

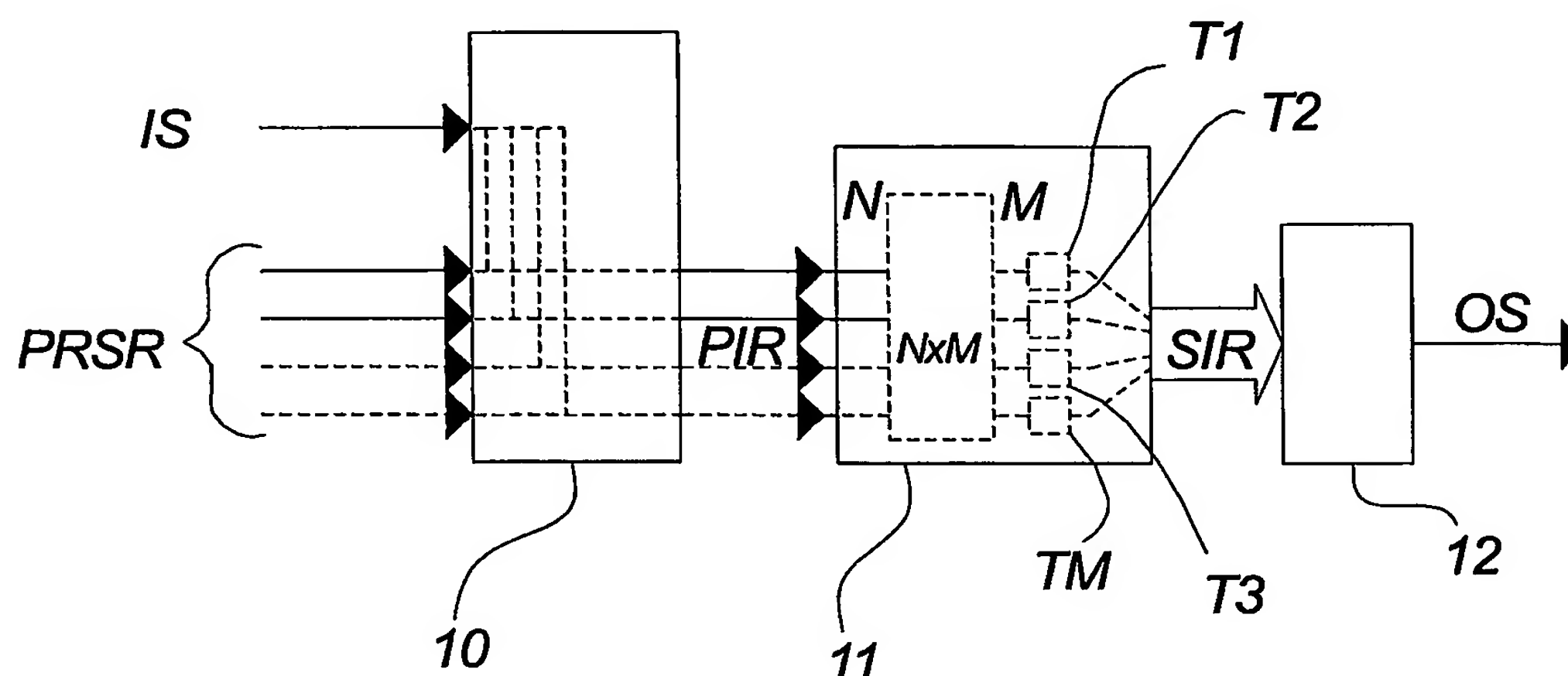
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF ESTABLISHING A PWM-MODULATED OUTPUT SIGNAL REPRESENTATION



(57) Abstract: The invention relates to a method of establishing a PWM-modulated output signal representation (OS), providing a stream of parallelly determined intersection representations (PIR) on the basis of a stream of parallel reference signal representation (PRSR) and an input signal (IS), establishing a serial PWM output signal representation (OS) by transforming said stream of parallelly determined intersection representations (PIR) into a stream of serial intersection representations (SIR) by means of a relative time shift of at least one of said parallelly determined intersections (PIR). According to an embodiment of the invention, an advantageous way of providing intersection estimates has been obtained, as each or at least a number of intersection estimates between a reference signal and an input signal may be established partially while taking only the individual partial reference functions into consideration.

BEST AVAILABLE COPY